

DERWENT-ACC-NO: 1992-324609
DERWENT-WEEK: 199240
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TITLE: Use of carbonaceous waste contg. halogen - by partial oxidn.
gasification in flame reaction to crude gas, and contacting gas with water
contg. alkalising agent etc.

INVENTOR: BOLCEK, R; GOEHLER, P ; SCHINGNITZ, M ; WENZEL, W

PATENT-ASSIGNEE: DEUT BRENNSTOFFINSTITUT GMBH[FREI],
NOELL-DBI ENERGIE &
ENTSORGUNGSTECHNIK[NOELN]

PRIORITY-DATA: 1991DE-4109231 (March 21, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 4109231 A	September 24, 1992	N/A	007	C10J 003/46
DE 4109231 C2	January 26, 1995	N/A	008	C10J 003/46

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 4109231A	N/A	1991DE-4109231	March 21, 1991
DE 4109231C2	N/A	1991DE-4109231	March 21, 1991

INT-CL_(IPC): C10J003/46; C10J003/82 ; C10L010/04

ABSTRACTED-PUB-NO: DE 4109231A

BASIC-ABSTRACT: In utilisation of carbonaceous waste loaded with halogen,
by
gasification with partial oxidn. in the chimney current, where the waste and a
gasifying agent contg. free O₂ are converted in a flame reaction at raised
pressure to a crude gas contg. CO and H₂, the crude gas at an end temp. of the
flame reaction of at least 1100 deg.C is contacted with water contg. an
additive with alkaline reaction, so that the crude gas is cooled and part of
the water is satd. with water vapour by evapn. and the unevaporated remaining
water takes up solid, liq. and water-sol. gaseous components of the crude gas;
the pH in the unevaporated remaining water is measured, and addn. of the
alkaline additive is controlled w.r.t. this pH.

USE/ADVANTAGE - Contamination of the atmos., water and soil by toxic (in)organic Cl cpds. is avoided, and corrosion of the plant is reduced. The waste is esp. hydrocarbons loaded with organic Cl cpds., e.g. fractions from used oil processing contaminated with Cl-contg. solvents, and carbonaceous dusts loaded with (in)organic Cl cpds.

ABSTRACTED-PUB-NO: DE 4109231C

EQUIVALENT-ABSTRACTS: In a process for evaluating halogen-contg carbonaceous

waste by gasification, crude gas is contacted with an additive, the gas is cooled and satd with water vapour by vaporising water, and the residue remaining unvapourised takes up solid, liq and gaseous components of the crude

gas. The pH of the residue remaining unvapourised is measured and the additive

is regulated depending on the pH value of the residue.

ADVANTAGE - Corrosion in the plant is reduced.

CHOSEN-DRAWING: Dwg.0/2 Dwg.0/2

TITLE-TERMS:

CARBONACEOUS WASTE CONTAIN HALOGEN OXIDATION GASIFICATION
FLAME REACT CRUDE GAS
CONTACT GAS WATER CONTAIN ALKALISED AGENT

ADDL-INDEXING-TERMS:

CARBON MON:OXIDE, HYDROGEN@

DERWENT-CLASS: E36 H04 H06 J01

CPI-CODES: E10-H02; E11-Q02; E31-A01; E33-A03; E33-D; H09-F02;
J01-E02A1;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H6 H600 H601 H602 H608 H609 H681 H682 H683 H684

H685 H686 H689 M280 M311 M312 M313 M314 M315 M316

M321 M331 M332 M333 M334 M340 M342 M343 M344 M363

M391 M416 M424 M620 M750 M903 M904 N164 Q419 Q431

Markush Compounds

199240-A4401-X

Chemical Indexing M3 *02*

Fragmentation Code

D021 D022 D023 D024 D025 D029 D200 D230 H6 H602
H607 H608 H609 H641 H642 H643 M280 M320 M412 M424
M511 M520 M530 M540 M750 M903 M904 N164 Q419 Q431

Markush Compounds

199240-A4402-X

Chemical Indexing M3 *03*

Fragmentation Code

D021 D022 D023 D024 D025 D029 D200 D230 H6 H602
H607 H608 H609 H642 H643 M280 M320 M412 M424 M511
M520 M530 M540 M750 M903 M904 N164 Q419 Q431

Markush Compounds

199240-A4403-X

Chemical Indexing M3 *04*

Fragmentation Code

A111 A940 C101 C108 C550 C730 C801 C802 C804 C805
C807 M411 M424 M781 M903 M904 M910 N164 Q419 Q431

Specific Compounds

01514U

Chemical Indexing M3 *05*

Fragmentation Code

A111 A940 C101 C106 C108 C530 C730 C801 C802 C803
C805 C807 M411 M424 M781 M903 M904 M910 N164 Q419
Q431

Specific Compounds

01151U 01287U

Chemical Indexing M3 *06*

Fragmentation Code

C106 C108 C550 C730 C800 C801 C802 C803 C805 C807
M411 M424 M781 M903 M904 M910 N164 Q419 Q431

Specific Compounds

01423U

Chemical Indexing M3 *07*

Fragmentation Code

C101 C550 C810 M411 M424 M781 M903 M904 M910 N164
Q419 Q431

Specific Compounds
01532U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1151U; 1287U ; 1423U ; 1514U
; 1532U

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1992-144258

CLIPPEDIMAGE= DE004109231A1

PUB-NO: DE004109231A1

DOCUMENT-IDENTIFIER: DE 4109231 A1

TITLE: Use of carbonaceous waste contg. halogen - by partial oxidn.
gasification in flame reaction to crude gas, and contacting gas with water
contg. alkalising agent etc.

PUBN-DATE: September 24, 1992

INVENTOR-INFORMATION:

NAME	COUNTRY
SCHINGNITZ, MANFRED DR	DE
WENZEL, WINFRIED DR	DE
BOLCEK, RAINER	DE
GOEHLER, PETER DR	DE

ASSIGNEE-INFORMATION:

NAME	COUNTRY
DEUTSCHES BRENNSTOFFINST	DE

APPL-NO: DE04109231

APPL-DATE: March 21, 1991

PRIORITY-DATA: DE04109231A (March 21, 1991)

INT-CL_(IPC): C10J003/46; C10L010/04

EUR-CL (EPC): C10J003/46

ABSTRACT:

In utilisation of carbonaceous waste loaded with halogen, by gasification with partial oxidn. in the chimney current, where the waste and a gasifying agent contg. free O₂ are converted in a flame reaction at raised pressure to a crude gas contg. CO and H₂, the crude gas at an end temp. of the flame reaction of at least 1100 deg.C is contacted with water contg. an additive with alkaline reaction, so that the crude gas is cooled and part of the water is satd. with water vapour by evapn. and the unevaporated remaining water takes up solid, liq. and water-sol. gaseous components of the crude gas; the pH in the unevaporated remaining water is measured, and addn. of the alkaline additive is controlled w.r.t. this pH. USE/ADVANTAGE - Contamination of the atmos., water and soil by toxic (in)organic Cl cpds. is avoided, and corrosion of the plant

is reduced. The waste is esp. hydrocarbons loaded with organic Cl cpds., e.g. fractions from used oil processing contaminated with Cl-contg. solvents, and carbonaceous dusts loaded with (in)organic Cl cpds.